What Is Claimed Is:

- 1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding the HSF polypeptide having the amino acid sequence at positions from about -26 to about 353 in SEQ ID NO:2;
- (b) a nucleotide sequence encoding the HSF polypeptide having the amino acid sequence at positions from about -25 to about 353 in SEQ ID NO:2;
- (c) a nucleotide sequence encoding the amino acid sequence at positions from about 1 to about 353 in SEQ ID NO:2;
- (d) a nucleotide sequence encoding the HSF polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731;
- (e) a nucleotide sequence encoding the mature HSF polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731; and
- (f) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d) or (e).
- 2. An isolated nucleic acid molecule comprising a polynucleotide which hybridizes under stringent hybridization conditions to a polynucleotide having a nucleotide sequence identical to a nucleotide sequence in (a), (b), (c), (d) or (e) of claim 1, wherein said polynucleotide which hybridizes does not hybridize under stringent hybridization conditions to a polynucleotide having a nucleotide sequence consisting of only A residues or of only T residues.
- 3. An isolated nucleic acid molecule comprising a polynucleotide which encodes the amino acid sequence of an epitope-bearing portion of a HSF polypeptide having an amino acid sequence in (a), (b), (c), (d) or (e) of claim 1.

- 4. The isolated nucleic acid molecule of claim 3, which encodes an epitope-bearing portion of a HSF polypeptide selected from the group consisting of: a polypeptide comprising amino acid residues from about -26 to about -1 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 1 to about 26 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 56 to about 90 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 94 to about 106 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 112 to about 137 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 146 to about 181 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 191 to about 222 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 257 to about 266 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 293 to about 304 in SEQ ID NO:2; and a polypeptide comprising amino acid residues from about 311 to about 351 in SEQ ID NO:2.
- 5. An isolated nucleic acid molecule comprising a polynucleotide having a sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) the nucleotide sequence of a fragment of the sequence shown in SEQ ID NO:1, wherein said fragment comprises at least 50 contiguous nucleotides of SEQ ID NO:1, provided that said nucleotide sequence is not SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, or any subfragment thereof; and
- (b) a nucleotide sequence complementary to a nucleotide sequence in(a).
- 6. A method for making a recombinant vector comprising inserting an isolated nucleic acid molecule of claim 1 into a vector.
 - 7. A recombinant vector produced by the method of claim 6.
- 8. A method of making a recombinant host cell comprising introducing the recombinant vector of claim 7 into a host cell.

- 9. A recombinant host cell produced by the method of claim 8.
- 10. A recombinant method for producing a HSF polypeptide, comprising culturing the recombinant host cell of claim 9 under conditions such that said polypeptide is expressed and recovering said polypeptide.
- 11. An isolated HSF polypeptide having an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:
 - (a) amino acid residues from about -26 to about 353 in SEQ ID NO:2;
 - (b) amino acid residues from about -25 to about 353 in SEQ ID NO:2;
 - (c) amino acid residues from about 1 to about 353 in SEQ ID NO:2;
- (d) the amino acid sequence of the HSF polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731;
- (e) the amino acid sequence of the mature HSF polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731; and
- (f) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d) or (e).
- 12. An isolated polypeptide comprising an epitope-bearing portion of the HSF protein, wherein said portion is selected from the group consisting of: a polypeptide comprising amino acid residues from about -26 to about -1 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 1 to about 26 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 56 to about 90 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 94 to about 106 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 112 to about 137 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 146 to about 181 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 191 to about 222 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 257 to about 266 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 293 to about

304 in SEQ ID NO:2; and a polypeptide comprising amino acid residues from and about 311 to about 351 in SEQ ID NO:2.

- 13. The isolated polypeptide of claim 11, which is produced or contained in a recombinant host cell.
- 14. The isolated polypeptide of claim 13, wherein said recombinant host cell is mammalian.
- 15. An isolated nucleic acid molecule comprising a polynucleotide encoding an HSF polypeptide wherein, except for one to fifty conservative amino acid substitutions, said polypeptide has a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding the HSF polypeptide having the amino acid sequence at positions from about -26 to about 353 in SEQ ID NO:2;
- (b) a nucleotide sequence encoding the HSF polypeptide having the amino acid sequence at positions from about -25 to about 353 in SEQ ID NO:2;
- (c) a nucleotide sequence encoding the amino acid sequence at positions from about 1 to about 353 in SEQ ID NO:2;
- (d) a nucleotide sequence encoding the HSF polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731;
- (e) a nucleotide sequence encoding the mature HSF polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731; and
- (f) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d) or (e).
- 16. An isolated HSF polypeptide wherein, except for one to fifty conservative amino acid substitutions, said polypeptide has a sequence selected from the group consisting of:
 - (a) amino acid residues from about -26 to about 353 in SEQ ID NO:2;

- (b) amino acid residues from about -25 to about 353 in SEQ ID NO:2;
- (c) amino acid residues from about 1 to about 353 in SEQ ID NO:2;
- (d) the amino acid sequence of the HSF polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731;
- (e) the amino acid sequence of the mature HSF polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97731; and
- (f) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d) or (e).
- 17. An isolated antibody that binds specifically to a HSF polypeptide of claim 11.
- 18. An isolated antibody that binds specifically to a HSF polypeptide of claim 12.